

PATENT

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Dated: Scotember 27, 2007

Rodney D. DeKruif

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re applic	cation of: Emrick et al.)
Serial No:	10/643,015)) Attorney Docket No. 7163
Filed:	August 18, 2003)
For:	PYRIDINE AND RELATED LIGAND COMPOUNDS, FUNCTIONALIZED NANOPARTICULATE COMPOSITES AND METHODS OF PREPARATION))))))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RULE 131 DECLARATION OF HABIB SKAFF

- 1. I, Habib Skaff, am a co-inventor with regard to the invention (the "Invention") disclosed and claimed in the above-entitled application (the "Application"). I make this declaration in support of the Application and, in particular, to antedate a reference cited against the Application.
- 2. The Invention claimed in the Application was completed before the effective date of application serial number 10/219,440 (i.e., the Dubertret

reference). More specifically, the Invention was conceived and with due diligence reduced to practice, in this country--the United States of America, prior to the effective date of the Dubertret reference.

3. This Declaration, and prior invention, is supported by copies of pertinent pages from my laboratory research notebook, entries to which I contemporaneously signed and dated and were witnessed by co-inventor, Todd S. Emrick. Date redacted copies of the aforementioned notebook pages are provided collectively as Exhibit A and incorporated herein by reference. These documents establish that the Invention was made at least as early as June 1, 2002, which is a date earlier than the effective date of the Dubertret reference. Without limitation, facts demonstrating prior invention of a composite of independent claim 1 include the experimental data I entered on page 37 of Exhibit A. Facts demonstrating prior invention of a system of independent claim 14 include the experimental data I entered on page 37 of a Exhibit A. Facts demonstrating prior invention of a method of independent claim 20 include the experimental data I entered on page 38 of Exhibit A.

I hereby declare that: All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; that those statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code; and that willful false

statements may jeopardize the validity of the Application or any patent issuing

thereon.

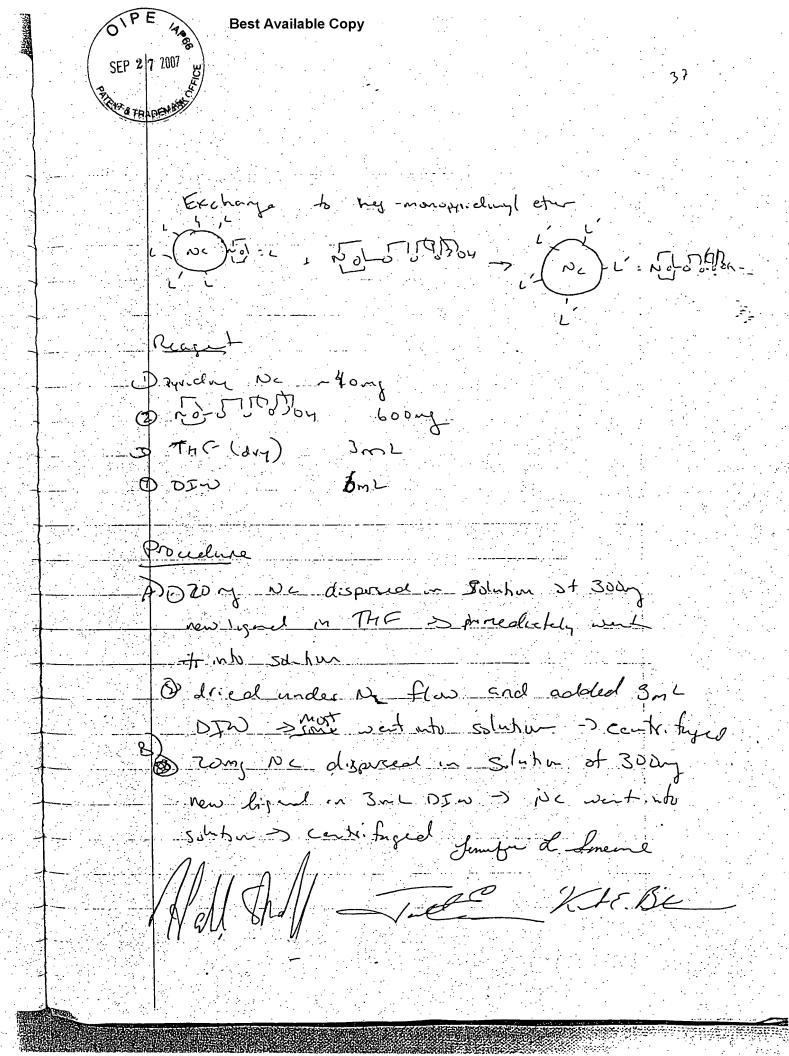
Date 9/29/27

Habib Skaff

Best Available Copy 0,022 ms1 350 DM-Py 70 14.259, 0.019 mol 262 D Ph3P 6. 28g, 0.024moi 212 \$ 0500 4.84g, 0.024mol (4.72mc) (3) THE 1814) 300ME 250ML Procedura DPh3P+ THE Loaded into 2-rece thick is struct und Pz QriL DDIAD added via sying & stired for 1/2 hr. (3) phenol : alcohol added : shired Oreantel our night protone of THE Badded ADIN FEKEN > ~ such al exc Dext-ula product out w/ CHZCIZ out of Aa phone > Myson, Rulerce -> (m colomo elaty N/ CH2C1, il next (7:3:0) (7:2:1)

EXY'PY Y

Best Available Copy OIPE SEP 2 7 2007 しかトサンはなりかかっているのか 10.042ms1 3000 Heg 31.589, U.105mol 0,05 ms1 262 (Ph3P 1315 -6-045 (-1... D) DZ B D 0.05mol, 10.35ml 10,19, D THE 500mL Procedure Dephenol, Phy P, D) AD, C, THIT loaded in 2-reck 5-Shired Q 1it under No for 1/2 hr. andid added stilled overnight INEVERTED CHUS: 9 (90:20) 3) GAGE CHUS: 9: MORE (91:20) 3) CHUS: 9: Merk (7:2:1) street distilly of unreacted did @ 1703c @ \$ 600 mtor - didn't work well Fren column in CHC13. Ph. Mean (75. 20: 2) (75:20:5), (80:20:10) Jenefe L. Inen



Best Available Copy L-(Ne)ose se mososisson l'allow dou Deege's (1) TOPD (overal NC - 15mg 50-50 BBOY 320 mg - (3) THF (dry) :3 m L) Proceduce. -DPL reale as southy & washed w/ MeOK 3 times - D dried our Pr How 1 redissilved in new 1.5 and in THE and alland by Stand over head of Nz overwith Ddistiled of 1/2 THF - precipitated w/ hexae -> all oc precipilated Dochol w/ herenes > centifyed -> redissolved in to H, O TAS BID Junger & Snew